

SYSTEM AND METHOD FOR GENERATING AND PRESENTING MULTI-MODAL APPLICATIONS FROM INTENT-BASED MARKUP SCRIPTS

ABSTRACT OF THE DISCLOSURE

Systems and methods for rendering modality-independent scripts (e.g.,

5 intent-based markup scripts) in a multi-modal environment and, in particular, to a multi-modal user interface for an application, whereby the user can interact with the application using a plurality of modalities (e.g., speech and GUI). The multi-modal interface automatically synchronizes I/O events over the plurality of modalities presented. In one aspect, the system provides immediate, synchronized rendering of the

10 modality-independent document in each of the supported modalities. In another aspect, the system provides deferred rendering and presentation of intent-based scripts to an end user, wherein the system comprises a transcoder for generating a speech markup language script (such as a VoiceXML document) from the modality-independent script and rendered (via, e.g., VoiceXML browser) at a later time.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Dantzig et al.

Docket: YOR9-2001-0261US1 (8728-507)

Serial No.: 09/876,714

Filed: June 6, 2001

For: SYSTEM AND METHOD FOR GENERATING AND
PRESENTING MULTI-MODAL APPLICATIONS FROM
INTENT-BASED MARKUP SCRIPTS

Assistant Commissioner for Patents
Washington, DC 20231

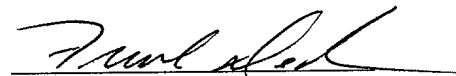
RESPONSE TO NOTICE TO FILE MISSING PARTS
OF NONPROVISIONAL APPLICATION

Sir:

In response to the Notice to File Missing Parts dated August 8, 2001, Applicant encloses herewith: (1) a properly executed original Declaration/Power of Attorney; (2) four sheets of formal drawings; (3) a substitute Abstract; and (4) a copy of the Notice to File Missing Parts.

Please charge the required fee of \$130.00 to cover the surcharge under 37 C.F.R. §1.16(e) to Deposit Account No. 50-0510/IBM (Yorktown Heights). Also, in the event any additional extensions of time are required, please treat this paper as a petition to extend the time as required and charge Deposit Account No. 50-0510/IBM. **TWO (2) COPIES OF THIS SHEET ARE ENCLOSED.**

Respectfully submitted,



Frank V. DeRosa

Registration No. 43,584

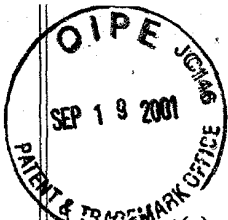
Attorney for Applicant(s)

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CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8(a)

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail, postpaid in an envelope, addressed to the: Assistant Commissioner for Patents, Washington, D.C. 20231 on September 14, 2001.

Dated: 9/14/01
Frank V. DeRosa



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COMMISSIONER FOR PATENTS
UNITED STATES PATENT AND TRADEMARK OFFICE
WASHINGTON, D.C. 20231
www.uspto.gov

APPLICATION NUMBER	FILING/RECEIPT DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
09/876,714	06/07/2001	Paul M. Dantzig	YOR9-2001-0261US1 (8728-5)

CONFIRMATION NO. 9392

FORMALITIES LETTER



OC00000006398362

F. CHAU & ASSOCIATES, LLP
Suite 501
1900 Hempstead Turnpike
East Meadow, NY 11554

Date Mailed: 08/08/2001

NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

FILED UNDER 37 CFR 1.53(b)

Filing Date Granted

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given **TWO MONTHS** from the date of this Notice within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The oath or declaration is missing.
A properly signed oath or declaration in compliance with 37 CFR 1.63, identifying the application by the above Application Number and Filing Date, is required.
- To avoid abandonment, a late filing fee or oath or declaration surcharge as set forth in 37 CFR 1.16(e) of \$130 for a non-small entity, must be submitted with the missing items identified in this letter.
- **The balance due by applicant is \$ 130.**

The application is informal since it does not comply with the regulations for the reason(s) indicated below.

The required item(s) identified below must be timely submitted to avoid abandonment:

- Substitute drawings in compliance with 37 CFR 1.84 because:
 - drawing sheets do not have the appropriate margin(s) (see 37 CFR 1.84(g)). Each sheet must include a top margin of at least 2.5 cm. (1 inch), a left side margin of at least 2.5 cm. (1 inch), a right side margin of at least 1.5 cm. (5/8 inch), and a bottom margin of at least 1.0 cm. (3/8 inch);
- An Abstract not to exceed 150 words in length, commencing on a separate sheet (37 CFR 1.72(b)).

*A copy of this notice **MUST** be returned with the reply.*

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Initial Patent Examination Division (703) 308-1202

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